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DATE: Friday, July 23, 2004

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		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=AND	
☐	L8	L7 and "ishii, kenji".in.	4
☐	L7	L6 and l2	9
☐	L6	((meth)acrylate or methacrylate) near5 (difunctional or bifunctional)	1127
☐	L5	(bifunctional or difunctional)	54976
☐	L4	(meth)acrylate or methacrylate	243999
☐	L3	L2 or l1	41472
☐	L2	ppe	14640
☐	L1	(polyphenylene adj1 ether) or (polyphenylene adj1 oxide) or (phenylene adj1 ether) or (phenylene adj1 oxide)	29069

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☐ 1. Document ID: US 20040132941 A1

L7: Entry 1 of 9 File: PGPB Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040132941
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040132941 A1

TITLE: (Meth) acrylate compound and cured product thereof

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ishii, Kenji	Tokyo		JP	
Norisue, Yasumasa	Tokyo		JP	
Ohno, Daisuke	Tokyo		JP	
Miyamoto, Makoto	Tokyo		JP	

US-CL-CURRENT: 526/319; 560/221

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 2. Document ID: US 20040068028 A1

L7: Entry 2 of 9 File: PGPB Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040068028
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040068028 A1

TITLE: Aqueous dispersion and the use thereof in the production of coating agents, adhesives and sealing agents that can cured by heat or by actinic radiation

PUBLICATION-DATE: April 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Baumgart, Hubert	Munster		DE	
Meisenburg, Uwe	Duisburg		DE	
Toboll, Petra	Havixbeck		DE	

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Joost, Karl-Heinz	Drensteinfurt	DE
Schwalm, Reinhold	Wachenheim	DE

US-CL-CURRENT: 522/148; 427/407.1, 522/173

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 3. Document ID: US 20030170469 A1

L7: Entry 3 of 9 File: PGPB Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170469
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030170469 A1

TITLE: Composite and process for producing the same

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ikuta, Toru	Hyogo		JP	
Komada, Hajime	Hyogo		JP	
Mutsuda, Mitsuteru	Hyogo		JP	

US-CL-CURRENT: 428/447; 525/474

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 4. Document ID: US 20030118839 A1

L7: Entry 4 of 9 File: PGPB Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030118839
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030118839 A1

TITLE: Composite material and method for preparation thereof

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ikuta, Toru	Hyogo		JP	
Komada, Hajime	Hyogo		JP	
Mutsuda, Mitsuteru	Hyogo		JP	

US-CL-CURRENT: 428/425.5; 428/413, 428/447

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☐ 5. Document ID: US 6645297 B1

L7: Entry 5 of 9 File: USPT Nov 11, 2003

US-PAT-NO: 6645297
DOCUMENT-IDENTIFIER: US 6645297 B1

TITLE: Roll coater for coating and method of manufacturing printed wiring board employing the roll coater

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Ayumi	Ogaki			JP
Niki; Ayao	Ogaki			JP
Aoki; Ryo	Ogaki			JP
Kitajima; Kazuhisa	Ogaki			JP
Kagohashi; Susumu	Ogaki			JP
Kajiyama; Yukari	Kariya			JP
Tanaka; Hiroshi	Kariya			JP

US-CL-CURRENT: 118/110; 118/224, 118/256, 427/359, 427/428, 492/30

ABSTRACT:

A roll coater with which an interlaminar resin insulating layer and/or a solder resist layer can be formed with good thickness uniformity to enable the manufacture of a printed circuit board free from the no-hole defect and anomalies in the diameter and geometry of the holes for via-hole and/or solder bump which is due to uneven layer thickness, thus having high electrical integrity and reliability. This roll coater 20 is used for forming an interlaminar resin insulating layer and/or a solder resist layer in the manufacture of a printed circuit board including a substrate and, as serially built up thereon, a conductor circuit and an interlaminar insulating layer in an alternate fashion and in repetition, with a solder resist layer formed on top of the resulting multilayer structure, which comprises rolls 21 each having a surface formed with a multiplicity of grooves running in the direction of roll rotation, with the grooves 22a, 22b in the roll-end or marginal areas 21a of the surface being relatively reduced in depth as compared with the remaining area.

7 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

☐ 6. Document ID: US 6093772 A

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L7: Entry 6 of 9 File: USPT Jul 25, 2000

US-PAT-NO: 6093772
DOCUMENT-IDENTIFIER: US 6093772 A

TITLE: Immiscible polymer compatibiliser system

DATE-ISSUED: July 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bussi; Philippe	Brionne			FR

US-CL-CURRENT: 525/64; 524/504, 525/148, 525/67, 525/71, 525/89

ABSTRACT:

An immiscible polymer system is disclosed, said system itself ecomprising a stable mixture of polymers that are individually miscible with the polymers to be compatibilized. The compositions consisting of this polymer mixture may be obtained by extrusion.

6 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 7. Document ID: JP 2004067817 A

L7: Entry 7 of 9 File: JPAB Mar 4, 2004

PUB-NO: JP02004067817A
DOCUMENT-IDENTIFIER: JP 2004067817 A
TITLE: MULTIFUNCTIONAL (METH)ACRYLATE COMPOUND AND ITS CURED PRODUCT

PUBN-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	COUNTRY
ISHII, KENJI	
NORISUE, YASUMASA	
ONO, ONORI	
MIYAMOTO, MAKOTO	

INT-CL (IPC): C08 G 65/48; C08 F 20/26; C08 F 290/06; G03 F 7/027

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a multifunctional (meth)acrylate resin having excellent heat resistance and electrical characteristics.

SOLUTION: A compound in which a multifunctional (meth)acrylate group is introduced

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into a bifunctional PPE oligomer has rich reactivity. A cured product thereof has a high glass transition temperature, low permittivity, a low dielectric dissipation factor and balanced characteristics taken from excellent properties of PPE.

☐ 8. Document ID: JP 2004059645 A

L7: Entry 8 of 9 File: JPAB Feb 26, 2004

PUB-NO: JP02004059645A
DOCUMENT-IDENTIFIER: JP 2004059645 A
TITLE: MULTIFUNCTIONAL (METH)ACRYLATE COMPOUND AND ITS CURED PRODUCT

PUBN-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	COUNTRY
ISHII, KENJI	
NORISUE, YASUMASA	
ONO, ONORI	
MIYAMOTO, MAKOTO	

INT-CL (IPC): C08 G 59/17; C08 F 290/06

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a multifunctional (meth)acrylate resin having excellent heat resistance and electric characteristics.

SOLUTION: This vinyl compound of formula (1) [R1, R2, R3, R4, and R5 are each H or methyl;-(O-X-O)-is represented by structural formula (2); R6, R7, R8, R12, R13, R14, and R15 are each a halogen, a ≤6C alkyl or phenyl; R9, R10, R11, R16, and R17 are H, a halogen, a ≤6C alkyl, or phenyl;-(Y-O)-is one kind of structure represented by structural formula (3) or two or more kinds of randomly arranged structures represented by structural formula (3); Z is a ≥1C organic group] prepared by introducing multifunctional (meth)acrylate groups into a difunctional PPE oligomer has rich reactivity. The cured product of the compound has a high glass transition temperature, a low dielectric constant, and a low dielectric loss tangent, succeeds the excellent natures of PPE, and has the characteristics in a good balance.

☑ 9. Document ID: JP 2003252833 A

L7: Entry 9 of 9 File: JPAB Sep 10, 2003

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PUB-NO: JP02003252833A
DOCUMENT-IDENTIFIER: JP 2003252833 A
TITLE: (METH)ACRYLATE COMPOUND AND CURED MATERIAL THEREOF

PUBN-DATE: September 10, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
ISHII, KENJI	
ONO, ONORI	

INT-CL (IPC): C07 C 69/54; C08 F 290/06; C08 F 299/02; C08 G 65/48

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a (meth)acrylate resin having excellent heat resistance and electric properties.

SOLUTION: The compound which is obtained by converting the ends of a bifunctional PPE oligomer into (meth)acrylates has excellent reactivity. The cured material of the compound has a high glass transition point, a low dielectric constant, a low dielectric dissipation factor and balanced properties inherited from excellent properties of PPE.

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